

REMARKS

Claims 2-7 stand rejected under 35 U.S.C. 112 as lacking antecedent basis for the term "the electronic device". Claims 2-7 have now been amended to replace the term "the electronic device" with the term "the multi-component electronic device". This amendment is made for clarity purposes only. It is respectfully asserted that the 35 U.S.C. 112 rejection has been overcome by the instant amendment, and that the rejection should be withdrawn.

It should be noted that claims 1 and 15 have been amended to replace the term "external" with "exterior" for clarity. Claims 1 and 15 have been further amended to state that upon attachment, the outer surface of the input component is juxtaposed to the exterior surface of the display component. Claim 9 has been amended to state that upon attachment, the outer surface of the input component is juxtaposed to an exterior surface of the hand held electronic data organizer. Support for these amendments can be found in FIG.1 as originally filed.

Claims 1-23 stand rejected under 35 U.S.C. 103 as being obvious over Griffin et al. in view of Weinzierl et al. Applicants respectfully urge that this ground of rejection has been overcome.

The present invention relates a multi-component electronic device having two separable parts, namely an input component, comprising a cartridge, which is removably attachable attachable to a display component, such as a hand held data organizer or PDA. The input cartridge includes an input element such as a keypad or touch screen, and also a communications interface for telecommunications capabilities.

The Examiner cites Griffin et al., stating that it discloses a "multi-component" electronic device of the present claim 1. Applicants submit that the device of Griffin et al. is not "multi-component" in the sense required by the present claims. The present claim 1

discloses a multi-component electronic device comprising two separate removably attachable components, namely a *display component* or module and an *input component* or module. As illustrated in the present FIGS. 1-3, the display component may comprise a PDA or the like, and the input component comprises an attachable cartridge having a keypad or the like. In contrast, Griffin relates to *single piece unit* hand-held electronic device having an display screen and an integral non-removable keyboard designed for data entry with a user's thumbs. In short, Griffin, et al is a member of a distinctly different art area in that it is a one piece construction device which gives no hint of being removably attachable and separable into two parts.

It is respectfully urged that the Examiner is incorrect in first asserting that Griffin discloses a multi-component electronic device, then stating that Griffin fails to teach an input component. Applicants disagree with the Examiner's statement that Griffin's device fails to include an input component at all. Griffin's input component is an *integral* keyboard which is described in depth throughout their disclosure.

The Examiner cites Weinzierl et al. for disclosing an input component, and takes the position that one skilled in the art would have combined the input component of Weinzierl with the device of Griffin. Applicants urge that this is not the case. Weinzierl relates to a wireless portfolio system to which a PDA or the like may be attached for wirelessly synchronizing a PDA with a desktop day planner, or the like. It is urged that no motivation exists for combining Griffin and Weinzerl since Griffin shows a one piece arrangement and Weinzerl shows a two piece arrangement, although one which is different from the present invention.

According to the present claims, there are two parts, namely a display component which is removably attachable to an input component in a certain manner. The input component comprises a *cartridge* which is removable attachable to the display component. The term "cartridge" is defined as "a small modular unit designed to be inserted into a larger piece of equipment" according to the American Heritage Dictionary of the English Language, Fourth Edition (see attached page from <http://www.dictionary.com>). This definition is

conforms with the present invention in FIG.1 which shows a smaller input component 11 which is inserted into a larger display component 3. The input component is matedly and removably attachable to the display component such that the outer surface of the input component is juxtaposed to the exterior surface of the display component.

The Examiner believes that Weinzerl's portfolio (220 in FIG.2) is analogous to the present invention's cartridge. Applicants respectfully disagree. As shown in Weinzerl's FIG.2, their portfolio is clearly very large compared to the PDA which is attached thereto and their portfolio certainly cannot be considered to be a cartridge. Further, even if Weinzerl's portfolio were hypothetically considered analogous to a cartridge, it is urged that this reference still fails to teach other key features of the claims. The presently amended claims now state that when the first electrical connector of the display component is attached to the second electrical connector of the input component, that *the outer surface of the input component is juxtaposed to the exterior surface of the display component.* This is shown in FIG.1. This is in direct contrast to the Weinzerl reference. As can be seen in Weinzerl's FIG.2, their PDA is *inserted into a cavity* of their portfolio rather than contacting an external surface of their PDA to an outer surface of their portfolio. Thus a combination of Weinzerl with Griffin would still fail to obviate the present claims.

Furthermore, as shown in FIG.2 of Weinzerl, their portfolio includes a QWERTY type keyboard for inputting data into an electronic day planner or the like. FIG.2 of Griffin shows that their device *already* includes a QWERTY type keyboard. Thus, attaching the device of Griffin to a portfolio of Weinzerl would result in a combination having two keyboards. This is clearly impractical, and thus it is urged that one skilled in the art would not have combined Weinzerl with Griffin in the first instance.

A hypothetical combination of Griffin with Weinzerl does not suggest a multi-component electronic device which comprises a display component and an input component wherein the input component is in the form of a cartridge which is matedly and removably

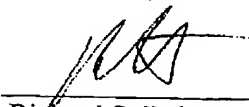
attachable to the display component such that the outer surface of the input component (e.g. the keyboard module) is juxtaposed to the exterior surface of the display component.

It is also respectfully submitted that the examiner is reconstructing the art in light of applicant's disclosure and forming a hypothetical combination which does not meet the applicant's amended claims, and would be impractical because the hypothetical combination would have two keyboards.

For the above reasons, Applicants therefore respectfully request that the 35 U.S.C. 103 rejection be withdrawn.

The undersigned respectfully requests re-examination of this application and believes it is now in condition for allowance. Such action is requested. If the examiner believes there is any matter which prevents allowance of the present application, it is requested that the undersigned be contacted to arrange for an interview which may expedite prosecution.

Respectfully submitted,



Richard S. Roberts
Reg. No. 27,941
P.O. Box 484
Princeton, New Jersey 08542
(609) 921-3500
Date: March 7, 2006

I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office (FAX No. 571-273-8300) on March 7, 2006.



Richard S. Roberts
Reg. No. 27,941

2 entries found for *cartridge*.

car·tridge  **Pronunciation Key** (kär' trĭj)
n.

- a. A cylindrical, usually metal casing containing the primer and charge of ammunition for firearms.
- b. Such a casing fitted with a bullet.
- c. A similar piece of ammunition, such as a shotgun shell.
2. A case filled with high explosives, used in blasting.
3. A small modular unit designed to be inserted into a larger piece of equipment: *an ink cartridge; a disposable cartridge of caulking compound*.
4. A removable case containing the stylus and electric conversion circuitry in a phonograph pickup.
5.
 - a. A case containing magnetic tape in a reel; a cassette.
 - b. A case containing a ribbon in a spool, for use in printers and electric typewriters.
6. A lightproof case with photographic film that can be loaded directly into a camera.

[Alteration of earlier cartage, alteration of French cartouche, from Italian cartuccio, variant of cartoccio, *roll of paper*. See **cartouche**.]

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cartridge

n 1: ammunition consisting of a cylindrical casing containing an explosive charge and a bullet; fired from a rifle or handgun 2: a light-tight supply chamber holding the film and supplying it for exposure as required [syn: magazine] 3: a module designed to be inserted into a larger piece of equipment; "he loaded a cartridge of fresh tape into the tape deck" 4: an electro-acoustic transducer that is the part of the arm of a record player that holds the needle and that is removable [syn: pickup]

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